Solid State Ionics 45 (1991) 339–342
North-Holland

Author Index to Volume 45

Adamic, K.J., see Y.S. Pak 45 (1991) 277
Ahmad, A., see S.F. Chehab 45 (1991) 299
Antolini, E., see A. Marini 45 (1991) 143

Balkanski, M., see M. Eddrief 45 (1991) 77
Bekka, A., see S. Nicolopoulos 45 (1991) 49
Berbenni, V., see A. Marini 45 (1991) 143
Boden, N., S.A. Leng and I.M. Ward, Ionic conductivity and diffusivity in polyethylene oxide/electrolyte solutions as models for polymer electrolytes 45 (1991) 261
Breitsamer, M., see H.P. Fritz 45 (1991) 255
Bychkov, E.A., see Yu.G. Vlasov 45 (1991) 1

Canaday, J.D., see S.F. Chehab 45 (1991) 299
Cao, S., Y. He and L. Chen, Experimental study of the pre-crystallization process in the amorphous fast ionic conductor $0.60AgI–0.25Ag_2O–0.15P_2O_5$ 45 (1991) 223
Capsoni, D., see A. Marini 45 (1991) 143
Chehab, S.F., J.D. Canaday, A.K. Kuriakose, T.A. Wheat and A. Ahmad, A hydrogen sensor based on bonded hydronium NASICON 45 (1991) 299
Chen, L., see S. Cao 45 (1991) 223
Cook, R.L. and A.F. Sammells, On the systematic selection of perovskite solid electrolytes for intermediate temperature fuel cells 45 (1991) 311
Coughlin, C.S., see Y.S. Pak 45 (1991) 277
Crist, B., see Y.L. Lee 45 (1991) 215
Crouch-Baker, S., An analysis of the asymmetric polarization method under conditions of relatively high applied voltage 45 (1991) 101

Danielewski, M., Coupled diffusion in the multicomponent system, derivation of the general formula for interdiffusion coefficient 45 (1991) 245
De Haan, J.W., see J.A.M. van Hoek 45 (1991) 93
De Rossi, S., see P. Porta 45 (1991) 35
Dieckmann, R., see S. Tinkler 45 (1991) 57
Dieckmann, R., Transition metal oxide–platinum alloy phase equilibria and their consequences for nonstoichiometry measurements 45 (1991) 271
Dzwonkowski, P., see M. Eddrief 45 (1991) 77

Eckert, H., see J.H. Kennedy 45 (1991) 21
Eddrief, M., P. Dzwonkowski, C. Julien and M. Balkanski, The ac conductivity in B_2O_3–Li_2O films 45 (1991) 77

Ferraris, G., see P. Porta 45 (1991) 35
Fontanella, J.J., see Y.S. Pak 45 (1991) 277

Fresno-Ruiz, S., see S. Goñi-Elizalde 45 (1991) 9
Fritz, H.P. and M. Breitsamer, Monoesters of di- and tri-basic acids with poly(vinyl alcohol) as ionically conducting polyelectrolytes 45 (1991) 255

García-Clavel, Ma.E., see S. Goñi-Elizalde 45 (1991) 9
García-Clavel, Ma.E., see S. Goñi-Elizalde 45 (1991) 15
Goñi-Elizalde, S., S. Fresno-Ruiz and Ma.E. García-Clavel, Obtention of meta and pyro-vanadates of cadmium from an unusual low energy process. II. Pyro-vanadate 45 (1991) 9
Goñi-Elizalde, S. and Ma.E. García-Clavel, Reactivity of ionic oxides through water molecules adsorption process. $MgO–V_2O_5$ behaviour 45 (1991) 15
Gonzalez-Calbet, J.M., see S. Nicolopoulos 45 (1991) 49
Greenbaum, S.G., see Y.S. Pak 45 (1991) 277

Hardcastle, F.D. and I.E. Wachs, Determination of niobium–oxygen bond distances and bond orders by Raman spectroscopy 45 (1991) 201
He, Y., see S. Cao 45 (1991) 223
Huggins, R.A., see B.Y. Liaw 45 (1991) 323

Iguchi, Y., see S. Yamaguchi 45 (1991) 191
Imai, A., see S. Yamaguchi 45 (1991) 191
Isard, J.O., D. Kruschke and W. Müller, The shape of complex impedance arcs for alkali ion conducting glasses 45 (1991) 157

Jones, R. and W.R. McKinnon, Lithium insertion into the layered perovskites $LiCa_2Nb_3O_{10}$ and $LiLaNb_2O_7$ 45 (1991) 173
Julien, C., see M. Eddrief 45 (1991) 77

Kennedy, J.H., C. Schaupp, H. Eckert and M. Ribes, Aluminum substitution in the glass system $0.33\ [(1-x)P_2S_5–xAl_2S_3]–0.67\ Li_2S$ 45 (1991) 21
Kim, D.-H. and G. Simkovich, Transport properties in molten sodium sulfate at 1173 K 45 (1991) 165
Kruschke, D., see J.O. Isard 45 (1991) 157
Kuo, C.K., see A. Tan 45 (1991) 137
Kuo, C.K., A. Tan and P.S. Nicholson, Electrical conductivity and mixed alkali effect in K^+/Rb^+-β''-Al_2O_3 ceramics 45 (1991) 285
Kuriakose, A.K., see S.F. Chehab 45 (1991) 299

Lee, Y.L., B. Sudarsana and B. Crist, Ion diffusivity from the growth rate of crystalline complex PEO_3NaSCN 45 (1991) 215
Leng, S.A., see N. Boden 45 (1991) 261
Liaw, B.Y., I.D. Raistrick and R.A. Huggins, Thermodynamic and structural considerations of insertion reactions in lithium vanadium bronze structures 45 (1991) 323
Licholit, I.L., see Yu.G. Vlasov 45 (1991) 1

Machida, N., Y. Shinkuma and T. Minami, Structure and electrical properties of Cu^+ ion-conducting oxyhalide glasses in the system $CuI–CuPO_3–Cu_2MoO_4$ 45 (1991) 123
Manoravi, P. and K. Shahi, Phase diagram and enhanced electrical transport in KBr–NaBr mixed crystals 45 (1991) 83

Marini, A., V. Massarotti, V. Berbenni, D. Capsoni, R. Riccardi, E. Antolini and B. Passalacqua, On the thermal stability and defect structure of the solid solution $Li_xNi_{1-x}O$ 45 (1991) 143
Massarotti, V., see A. Marini 45 (1991) 143
McKinnon, W.R., see A.K. Sleigh 45 (1991) 67
McKinnon, W.R., see R. Jones 45 (1991) 173
Mellander, B.-E., see C.N. Wijayasekera 45 (1991) 293
Metselaar, R., see J.A.M. van Hoek 45 (1991) 93
Minami, T., see N. Machida 45 (1991) 123
Molenda, J., A. Stokłosa and H.M. Soliman, Transport properties of manganese-doped ferrous oxide at high temperature 45 (1991) 109
Monceau, D., C. Petot and G. Petot-Ervas, Kinetic demixing profile calculation in oxide solid solutions under a chemical potential gradient 45 (1991) 231
Müller, W., see J.O. Isard 45 (1991) 157
Munshi, M.Z.A. and W.H. Smyrl, Insertion reactions of sodium in V_6O_{13} single crystals from a solid polymeric electrolyte 45 (1991) 183

Nicholson, P.S., see G. Xu 45 (1991) 131
Nicholson, P.S., see A. Tan 45 (1991) 137
Nicholson, P.S., see C.K. Kuo 45 (1991) 285
Nicholson, P.S., see G. Xu 45 (1991) 289
Nicolopoulos, S., H. Vincent, A. Bekka and J.M. Gonzalez-Calbet, Defects study by HREM of the hydrated sodium β″-alumina-like ferrite and derived (Li, Zn) spinel ferrite 45 (1991) 49

Okuwaki, A., see T. Sato 45 (1991) 43

Pak, Y.S., K.J. Adamic, S.G. Greenbaum, M.C. Wintersgill, J.J. Fontanella and C.S. Coughlin, Complex impedance and multifrequency ^{23}Na NMR study of poly(propylene oxide) complexed with $NaB(C_6H_5)_4$ 45 (1991) 277
Passalacqua, B., see A. Marini 45 (1991) 143
Petot, C., see D. Monceau 45 (1991) 231
Petot-Ervas, G., see D. Monceau 45 (1991) 231
Pompa, F., see P. Porta 45 (1991) 35
Porta, P., S. De Rossi, G. Ferraris and F. Pompa, Characterization of copper–zinc mixed oxide system in relation to different precursor structure and morphology 45 (1991) 35

Quarton, M., see M. Touboul 45 (1991) 337

Raistrick, I.D., see B.Y. Liaw 45 (1991) 323
Reid, W.B. and A.R. West, Surface roughness effects at lithium silicate glass/blocking metal interfaces 45 (1991) 239
Ribes, M., see J.H. Kennedy 45 (1991) 21
Riccardi, R., see A. Marini 45 (1991) 143
Rogers, M.D. and C.A. Vincent, Electron probe microanalysis studies of composite electrodes in solid state cells 45 (1991) 29

Sammells, A.F., see R.L. Cook 45 (1991) 311
Santhakumari, N.C. and C.P.G. Vallabhan, Electrical properties and phase transitions in ethylenediammonium dinitrate 45 (1991) 329

Sato, T. and A. Okuwaki, Intercalation of benzenecarboxylate ions into the interlayer of hydrotalcite 45 (1991) 43
Schaupp, C., see J.H. Kennedy 45 (1991) 21
Secco, E.A., Comments on electrical conductivity and phase diagram of the system Li_2SO_4–Li_3PO_4 45 (1991) 335
Seleznev, B.L., see Yu.G. Vlasov 45 (1991) 1
Shahi, K., see P. Manoravi 45 (1991) 83
Shinkuma, Y., see N. Machida 45 (1991) 123
Simkovich, G., see D.-H. Kim 45 (1991) 165
Sleigh, A.K. and W.R. McKinnon, Structure and electrochemistry of Li_xWO_2 45 (1991) 67
Smyrl, W.H., see M.Z.A. Munshi 45 (1991) 183
Soliman, H.M., see J. Molenda 45 (1991) 109
Stokłosa, A., see J. Molenda 45 (1991) 109
Sudarsana, B., see Y.L. Lee 45 (1991) 215

Tan, A., C.K. Kuo and P.S. Nicholson, The influence of grain-boundaries on the conductivity and ion-exchange rate of β″-alumina polycrystalline isomorphs 45 (1991) 137
Tan, A., see C.K. Kuo 45 (1991) 285
Tange, M., see S. Yamaguchi 45 (1991) 191
Tinkler, S. and R. Dieckmann, Kinetics of the oxidation of manganosite ($Mn_{1-\Delta}O$) to hausmannite (β-$Mn_{3-\delta}O_4$) at high temperatures 45 (1991) 57
Touboul, M. and M. Quarton, Reply to the Comments on electrical conductivity and phase diagram of the system Li_2SO_4–Li_3PO_4 45 (1991) 337

Vallabhan, C.P.G., see N.C. Santhakumari 45 (1991) 329
Van den Berg, A.J., see J.A.M. van Hoek 45 (1991) 93
Van Hoek, J.A.M., F.J.J. van Loo, R. Metselaar, J.W. de Haan and A.J. van den Berg, Formation of $CaO{\cdot}10Al_2O_3$ with the β-alumina-type structure by means of ion exchange 45 (1991) 93
Van Loo, F.J.J., see J.A.M. van Hoek 45 (1991) 93
Vincent, C.A., see M.D. Rogers 45 (1991) 29
Vincent, H., see S. Nicolopoulos 45 (1991) 49
Vlasov, Yu.G., E.A. Bychkov, B.L. Seleznev, E.A. Zhilinskaya and I.L. Licholit, Ni-implanted vitreous electrolyte $AgAsS_2$: ESR, ionic and electronic conductivity 45 (1991) 1

Wachs, I.E., see F.D. Hardcastle 45 (1991) 201
Ward, I.M., see N. Boden 45 (1991) 261
West, A.R., see W.B. Reid 45 (1991) 239
Wheat, T.A., see S.F. Chehab 45 (1991) 299
Wijayasekera, C.N. and B.-E. Mellander, Phase transitions and ionic conductivity of the lithium sulphate–lithium phosphate system 45 (1991) 293
Wintersgill, M.C., see Y.S. Pak 45 (1991) 277

Xu, G. and P.S. Nicholson, An ultrasonic shear wave attenuation study on Na^+, K^+, β″-alumina 45 (1991) 131
Xu, G. and P.S. Nicholson, An ultrasonic attenuation study of hydronium-β″-alumina 45 (1991) 289

Yamaguchi, S., M. Tange, Y. Iguchi and A. Imai, Ionic conduction in partially ion exchanged Sr β-alumina; $Sr_{1-x}Na_{2x}MgAl_{10}O_{17}$ 45 (1991) 191

Zhilinskaya, E.A., see Yu.G. Vlasov 45 (1991) 1

Solid State Ionics 45 (1991) 343–344
North-Holland

Subject Index to Volume 45

Alkali ion glasses, 157
Aluminum doped glass, 21
Amorphous fast ionic conductor, 223
Anion uptake, 43

β″-alumina, 285, 289
  potassium, 131
  sodium, 131
β″-ferrites
  HREM, 49
β-alumina, 93, 191
  calcium, 93
Benzenecarboxylate ions, 43
Bond order, 201
Bronze, 323

Cadmium pyrovanadate
  mechanism, 9
  obtention, 9
Calcium hexa aluminate, 93
Catalysts, 35
Chalcogenide glass, 21
Chemical stability, 143
Complex impedance, 77, 157, 239, 277
Conductive glass, 21
Copper iodide, 123
Copper phosphate, 123
Copper–zinc oxides, 35
Corrosion
  hot, 165
Cuprous iodide, 101

Dielectric constant, 329
Diffusion, 245

Electrical conductivity, 109
Electrolyte, 311
Electrolytic film, 77
Electronic conductivity, 101
Electron microscopy, 223
Enhanced conductivity, 83
Equilibrium, 271
Esters of PVA, 255

Ferrites
  β″-alumina-like, 49
  spinel type, 49
Ferrous oxide, 109
Fuel cell, 311

Glass, 123,239
Glass electrolyte, 1
Grain boundary structure, 137

Hydrotalcite, 43

Insertion, 173
  electrodes, 29
  reactions, 183
Intercalation, 43, 67, 173, 323
Ion exchange, 93, 137, 191
Ionic conductivity, 1, 191, 223, 255
  ammonium, 137
  copper, 123
  hydrogen, 299
  hydronium, 289
  lithium, 77, 239, 293
  oxygen, 311
  potassium, 285
  proton, 329
  rubidium, 285
  silver, 29
  sodium, 165
Ion implantation, 1

Kinetic demixing, 231
Kinetics, 57

Least squares fitting, 157
Lithium, 173
Lithium carbonate, 143
Lithium phosphate, 293
Lithium silicate, 239
Lithium sulphate, 293

Magnesium aluminum oxide
  rehydration, 43
Magnesium metavanadate, 15
Manganese oxide, 57
Mass transport, 245
Mixed alkali effect, 285
Modelling, 311

Na^+ conductor, 215
NASICON, 299
Nernst–Einstein, 261

Nickel, 143
Nickel oxide, 143
Niobates, 173
Niobium oxide, 201
NMR, 261, 277
 ^{19}F, 261
 ^{7}Li, 261
Nonstoichiometry, 109
 errors, 271
 measurements, 271

Oxidation, 57,245

Parabolic rate law, 57
Percolation model, 1
Perovskites, 173, 311
Phase diagram, 83, 293
Phase transition, 293
Platinum alloys, 271
Point defects, 143
Polyelectrolytes, 255
Poly(ethylene oxide), 215, 277
Polymer electrolyte, 215
Potassium bromide, 83
Pre-crystallization process, 223
Protonic conductors, 49

Raman spectroscopy, 201
Reactivity, 15

Scanning electron microscopy, 29
Semiconductor, 109
Sensor, 299
Sodium bromide, 83
Sodium sulfate, 165
Solid electrolyte, 21, 215
Solid solutions, 143, 231
 copper oxide–zinc oxide, 35
Solid state ^{27}Al-NMR, 93
Spinel exchange compounds, 49
Strontium aluminate, 191
Superconductivity, 173

Theory, 101
Thermal analysis, 223
Thermodynamics, 245, 323, 329
Thermoelectric power, 109
Transition metal oxides, 271
Transport properties, 109
Tungsten dioxide, 67

Ultrasonic measurement, 223
Ultrasonics, 131, 289

Vanadium oxides, 183, 323
Vanadium pentoxide gels, 9, 15

X-ray structure, 67
X-ray study
 in situ, 67